



FortiOS - Release Notes

Version 6.2.5

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FortiOS 6.2.5 Release Notes

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Change Log

Date	Change Description
2020-08-20	Initial release.
2020-08-24	Removed 640320 from <i>New features or enhancements</i> . Updated <i>Resolved issues</i> and <i>Known issues</i> .

Introduction and supported models

This guide provides release information for FortiOS 6.2.5 build 1142.

For FortiOS documentation, see the [Fortinet Document Library](#).

Supported models

FortiOS 6.2.5 supports the following models.

FortiGate	FG-30E, FG-30E_3G4G_INTL, FG-30E_3G4G_NAM, FG-30E-MG, FG-40F, FG-40F-3G4G, FG-50E, FG-51E, FG-52E, FG-60E, FG-60E-DSL, FG-60E-DSLJ, FG-60E-POE, FG-60F, FG-61E, FG-61F, FG-80E, FG-80E-POE, FG-81E, FG-81E-POE, FG-90E, FG-92D, FG-100D, FG-100E, FG-100EF, FG-100F, FG-101E, FG-101F, FG-140D, FG-140D-POE, FG-140E, FG-140E-POE, FG-200E, FG-201E, FG-300D, FG-300E, FG-301E, FG-400D, FG-400E, FG-401E, FG-500D, FG-500E, FG-501E, FG-600D, FG-600E, FG-601E, FG-800D, FG-900D, FG-1000D, FG-1100E, FG-1101E, FG-1200D, FG-1500D, FG-1500DT, FG-2000E, FG-2200E, FG-2201E, FG-2500E, FG-3000D, FG-3100D, FG-3200D, FG-3300E, FG-3301E, FG-3400E, FG-3401E, FG-3600E, FG-3601E, FG-3700D, FG-3800D, FG-3810D, FG-3815D, FG-5001D, FG-3960E, FG-3980E, FG-5001E, FG-5001E1
FortiWiFi	FWF-30E, FWF-30E_3G4G_INTL, FWF-30E_3G4G_NAM, FWF-40F, FWF-40F-3G4G, FWF-50E, FWF-50E-2R, FWF-51E, FWF-60E, FWF-60E-DSL, FWF-60E-DSLJ, FWF-60F, FWF-61E, FWF-61F
FortiGate Rugged	FGR-30D, FGR-35D, FGR-90D
FortiGate VM	FG-SVM, FG-VM64, FG-VM64-ALI, FG-VM64-ALIONDEMAND, FG-VM64-AWS, FG-VM64-AWSONDEMAND, FG-VM64-AZURE, FG-VM64-AZUREONDEMAND, FG-VM64-GCP, FG-VM64-GCPONDEMAND, FG-VM64-HV, FG-VM64-KVM, FG-VM64-OPC, FG-VM64-RAXONDEMAND, FG-VMX, FG-VM64-XEN
Pay-as-you-go images	FOS-VM64, FOS-VM64-KVM, FOS-VM64-XEN

Special notices

- New Fortinet cloud services
- FortiGuard Security Rating Service
- Using FortiManager as a FortiGuard server on page 9
- FortiGate hardware limitation
- CAPWAP traffic offloading
- FortiClient (Mac OS X) SSL VPN requirements
- Use of dedicated management interfaces (mgmt1 and mgmt2)
- NP4lite platforms
- Tags option removed from GUI
- L2TP over IPsec on certain mobile devices on page 10
- PCI passthrough ports on page 11

New Fortinet cloud services

FortiOS 6.2.0 introduced several new cloud-based services listed below. The new services require updates to FortiCare and Fortinet's FortiCloud single sign-on (SSO) service.

- Overlay Controller VPN
- FortiGuard Cloud-Assist SD-WAN Interface Bandwidth Monitoring
- FortiManager Cloud
- FortiAnalyzer Cloud

FortiGuard Security Rating Service

Not all FortiGate models can support running the FortiGuard Security Rating Service as a Fabric "root" device. The following FortiGate platforms can run the FortiGuard Security Rating Service when added to an existing Fortinet Security Fabric managed by a supported FortiGate model:

- FGR-30D
- FGR-35D
- FGT-30E
- FGT-30E-MI
- FGT-30E-MN
- FGT-50E
- FGT-51E
- FGT-52E
- FWF-30E
- FWF-30E-MI

- FWF-30E-MN
- FWF-50E
- FWF-50E-2R
- FWF-51E

Using FortiManager as a FortiGuard server

If you use FortiManager as a FortiGuard server, and you configure the FortiGate to use a secure connection to FortiManager, you must use HTTPS with port 8888. HTTPS with port 53 is not supported.

FortiGate hardware limitation

FortiOS 5.4.0 reported an issue with the FG-92D model in the *Special Notices > FG-92D High Availability in Interface Mode* section of the release notes. Those issues, which were related to the use of port 1 through 14, include:

- PPPoE failing, HA failing to form.
- IPv6 packets being dropped.
- FortiSwitch devices failing to be discovered.
- Spanning tree loops may result depending on the network topology.

FG-92D does not support STP. These issues have been improved in FortiOS 5.4.1, but with some side effects with the introduction of a new command, which is enabled by default:

```
config global
    set hw-switch-ether-filter <enable | disable>
```

When the command is enabled:

- ARP (0x0806), IPv4 (0x0800), and VLAN (0x8100) packets are allowed.
- BPDUs are dropped and therefore no STP loop results.
- PPPoE packets are dropped.
- IPv6 packets are dropped.
- FortiSwitch devices are not discovered.
- HA may fail to form depending the network topology.

When the command is disabled:

- All packet types are allowed, but depending on the network topology, an STP loop may result.

CAPWAP traffic offloading

CAPWAP traffic will not offload if the ingress and egress traffic ports are on different NP6 chips. It will only offload if both ingress and egress ports belong to the same NP6 chip. The following models are affected:

- FG-900D
- FG-1000D
- FG-2000E
- FG-2500E

FortiClient (Mac OS X) SSL VPN requirements

When using SSL VPN on Mac OS X 10.8, you must enable SSLv3 in FortiOS.

Use of dedicated management interfaces (*mgmt1* and *mgmt2*)

For optimum stability, use management ports (*mgmt1* and *mgmt2*) for management traffic only. Do not use management ports for general user traffic.

NP4lite platforms

FortiOS 6.2 and later does not support NP4lite platforms.

Tags option removed from GUI

The Tags option is removed from the GUI. This includes the following:

- The *System > Tags* page is removed.
- The *Tags* section is removed from all pages that had a *Tags* section.
- The *Tags* column is removed from all column selections.

L2TP over IPsec on certain mobile devices

Bug ID	Description
459996	Samsung Galaxy Tab A 8 and Android 9.0 crash after L2TP over IPsec is connected.

PCI passthrough ports

Bug ID	Description
605103	PCI passthrough ports order might be changed after upgrading. This does not affect VMXNET3 and SR-IOV ports because SR-IOV ports are in MAC order by default.

New features or enhancements

Bug ID	Description
480717	Add <code>config system dedicated-mgmt</code> to all FortiGate models with <code>mgmt</code> , <code>mgmt1</code> , and <code>mgmt2</code> ports.
641990	Make the <code>diagnose wad session list</code> command available to models without WAN optimization support.

Changes in CLI defaults

Bug ID	Description
613730	<p>Add subscription-id attribute for route table in Azure SDN configuration to allow updating a route table in a different subscription.</p> <pre>config system sdn-connector edit "azsdn" config route-table edit "xxxxxxxx-rtbl" set subscription-id "xxxxxxxxxxxxxxxx" <==added set resource-group "xxxxxxxx" config route edit "internal-forward" set next-hop "172.28.5.4" next end next end end</pre>
613876	<p>Add dhcp-ra-giaddr under ipsec phase1-interface.</p> <pre>config vpn ipsec phase1-interface edit "1" set type dynamic set peertype any set net-device disable set mode-cfg enable set proposal aes128-sha256 aes256-sha256 aes128-sha1 aes256-sha1 set dpd on-idle set assign-ip-from dhcp set dhcp-ra-giaddr <==added next end</pre>

Upgrade Information

Supported upgrade path information is available on the [Fortinet Customer Service & Support site](#).

To view supported upgrade path information:

1. Go to <https://support.fortinet.com>.
2. From the *Download* menu, select *Firmware Images*.
3. Check that *Select Product* is *FortiGate*.
4. Click the *Upgrade Path* tab and select the following:
 - *Current Product*
 - *Current FortiOS Version*
 - *Upgrade To FortiOS Version*
5. Click *Go*.

FortiClient Endpoint Telemetry license

Starting with FortiOS 6.2.0, the FortiClient Endpoint Telemetry license is deprecated. The FortiClient Compliance profile under the Security Profiles menu has been removed as has the Enforce FortiClient Compliance Check option under each interface configuration page. Endpoints running FortiClient 6.2.0 now register only with FortiClient EMS 6.2.0 and compliance is accomplished through the use of Compliance Verification Rules configured on FortiClient EMS 6.2.0 and enforced through the use of firewall policies. As a result, there are two upgrade scenarios:

- Customers using only a FortiGate device in FortiOS 6.0 to enforce compliance must install FortiClient EMS 6.2.0 and purchase a FortiClient Security Fabric Agent License for their FortiClient EMS installation.
- Customers using both a FortiGate device in FortiOS 6.0 and FortiClient EMS running 6.0 for compliance enforcement, must upgrade the FortiGate device to FortiOS 6.2.0, FortiClient to 6.2.0, and FortiClient EMS to 6.2.0.

The FortiClient 6.2.0 for MS Windows standard installer and zip package containing FortiClient.msi and language transforms and the FortiClient 6.2.0 for macOS standard installer are included with FortiClient EMS 6.2.0.

Fortinet Security Fabric upgrade

FortiOS 6.2.5 greatly increases the interoperability between other Fortinet products. This includes:

- FortiAnalyzer 6.2.5
- FortiClient EMS 6.2.3 and later
- FortiClient 6.2.3 and later
- FortiAP 5.4.4 and later
- FortiSwitch 3.6.11 and later

When upgrading your Security Fabric, devices that manage other devices should be upgraded first. Upgrade the firmware of each device in the following order. This maintains network connectivity without the need to use manual steps.

1. FortiAnalyzer
2. FortiManager
3. FortiGate devices
4. Managed FortiSwitch devices
5. Managed FortiAP devices
6. FortiClient EMS
7. FortiClient
8. FortiSandbox
9. FortiMail
10. FortiWeb
11. FortiADC
12. FortiDDOS
13. FortiWLC



If the Security Fabric is enabled, then all FortiGate devices must be upgraded to 6.2.5. When the Security Fabric is enabled in FortiOS 6.2.5, all FortiGate devices must be running FortiOS 6.2.5.

Minimum version of TLS services automatically changed

For improved security, FortiOS 6.2.5 uses the `ssl-min-proto-version` option (under `config system global`) to control the minimum SSL protocol version used in communication between FortiGate and third-party SSL and TLS services.

When you upgrade to FortiOS 6.2.5 and later, the default `ssl-min-proto-version` option is TLS v1.2. The following SSL and TLS services inherit global settings to use TLS v1.2 as the default. You can override these settings.

- Email server (`config system email-server`)
- Certificate (`config vpn certificate setting`)
- FortiSandbox (`config system fortisandbox`)
- FortiGuard (`config log fortiguard setting`)
- FortiAnalyzer (`config log fortianalyzer setting`)
- LDAP server (`config user ldap`)
- POP3 server (`config user pop3`)

Downgrading to previous firmware versions

Downgrading to previous firmware versions results in configuration loss on all models. Only the following settings are retained:

- operation mode
- interface IP/management IP
- static route table
- DNS settings
- admin user account
- session helpers
- system access profiles

Amazon AWS enhanced networking compatibility issue

With this enhancement, there is a compatibility issue with 5.6.2 and older AWS VM versions. After downgrading a 6.2.5 image to a 5.6.2 or older version, network connectivity is lost. Since AWS does not provide console access, you cannot recover the downgraded image.

When downgrading from 6.2.5 to 5.6.2 or older versions, running the enhanced NIC driver is not allowed. The following AWS instances are affected:

C5	Inf1	P3	T3a
C5d	m4.16xlarge	R4	u-6tb1.metal
C5n	M5	R5	u-9tb1.metal
F1	M5a	R5a	u-12tb1.metal
G3	M5ad	R5ad	u-18tb1.metal
G4	M5d	R5d	u-24tb1.metal
H1	M5dn	R5dn	X1
I3	M5n	R5n	X1e
I3en	P2	T3	z1d

A workaround is to stop the instance, change the type to a non-ENA driver NIC type, and continue with downgrading.

FortiLink access-profile setting

The new FortiLink `local-access` profile controls access to the physical interface of a FortiSwitch that is managed by FortiGate.

After upgrading FortiGate to 6.2.5, the interface `allowaccess` configuration on all managed FortiSwitches are overwritten by the default FortiGate `local-access` profile. You must manually add your protocols to the `local-access` profile after upgrading to 6.2.5.

To configure local-access profile:

```
config switch-controller security-policy local-access
    edit [Policy Name]
        set mgmt-allowaccess https ping ssh
        set internal-allowaccess https ping ssh
    next
end
```

To apply local-access profile to managed FortiSwitch:

```
config switch-controller managed-switch
    edit [FortiSwitch Serial Number]
        set switch-profile [Policy Name]
        set access-profile [Policy Name]
    next
end
```

FortiGate VM with V-license

This version allows FortiGate VM with V-License to enable `split-vdom`.

To enable `split-vdom`:

```
config system global
    set vdom-mode [no-vdom | split vdom]
end
```

FortiGate VM firmware

Fortinet provides FortiGate VM firmware images for the following virtual environments:

Citrix XenServer and Open Source XenServer

- `.out`: Download the 64-bit firmware image to upgrade your existing FortiGate VM installation.
- `.out.OpenXen.zip`: Download the 64-bit package for a new FortiGate VM installation. This package contains the QCOW2 file for Open Source XenServer.
- `.out.CitrixXen.zip`: Download the 64-bit package for a new FortiGate VM installation. This package contains the Citrix XenServer Virtual Appliance (XVA), Virtual Hard Disk (VHD), and OVF files.

Linux KVM

- `.out`: Download the 64-bit firmware image to upgrade your existing FortiGate VM installation.
- `.out.kvm.zip`: Download the 64-bit package for a new FortiGate VM installation. This package contains QCOW2 that can be used by `qemu`.

Microsoft Hyper-V

- `.out`: Download the 64-bit firmware image to upgrade your existing FortiGate VM installation.
- `.out.hyperv.zip`: Download the 64-bit package for a new FortiGate VM installation. This package contains three folders that can be imported by Hyper-V Manager on Hyper-V 2012. It also contains the file `fortios.vhd` in the Virtual Hard Disks folder that can be manually added to the Hyper-V Manager.

VMware ESX and ESXi

- `.out`: Download either the 64-bit firmware image to upgrade your existing FortiGate VM installation.
- `.ovf.zip`: Download either the 64-bit package for a new FortiGate VM installation. This package contains Open Virtualization Format (OVF) files for VMware and two Virtual Machine Disk Format (VMDK) files used by the OVF file during deployment.

Firmware image checksums

The MD5 checksums for all Fortinet software and firmware releases are available at the Customer Service & Support portal, <https://support.fortinet.com>. After logging in select *Download > Firmware Image Checksums*, enter the image file name including the extension, and select *Get Checksum Code*.

FortiGuard update-server-location setting

The FortiGuard `update-server-location` default setting is different between hardware platforms and VMs. On hardware platforms, the default is `any`. On VMs, the default is `usa`.

On VMs, after upgrading from 5.6.3 or earlier to 5.6.4 or later (including 6.0.0 or later), `update-server-location` is set to `usa`.

If necessary, set `update-server-location` to use the nearest or low-latency FDS servers.

To set FortiGuard `update-server-location`:

```
config system fortiguard
  set update-server-location [usa|any]
end
```

FortiView widgets

FortiView widgets have been rewritten in 6.2.5. FortiView widgets created in previous versions are deleted in the upgrade.

Product integration and support

The following table lists FortiOS 6.2.5 product integration and support information:

Web Browsers	<ul style="list-style-type: none">• Microsoft Edge 44• Mozilla Firefox version 76• Google Chrome version 81 Other web browsers may function correctly, but are not supported by Fortinet.
Explicit Web Proxy Browser	<ul style="list-style-type: none">• Microsoft Edge 44• Mozilla Firefox version 76• Google Chrome version 81• Microsoft Internet Explorer version 11 Other web browsers may function correctly, but are not supported by Fortinet.
FortiManager	See important compatibility information in Fortinet Security Fabric upgrade on page 14 . For the latest information, see FortiManager compatibility with FortiOS in the Fortinet Document Library. Upgrade FortiManager before upgrading FortiGate.
FortiAnalyzer	See important compatibility information in Fortinet Security Fabric upgrade on page 14 . For the latest information, see FortiAnalyzer compatibility with FortiOS in the Fortinet Document Library. Upgrade FortiAnalyzer before upgrading FortiGate.
FortiClient: <ul style="list-style-type: none">• Microsoft Windows• Mac OS X• Linux	<ul style="list-style-type: none">• 6.2.0 See important compatibility information in FortiClient Endpoint Telemetry license on page 14 and Fortinet Security Fabric upgrade on page 14 . FortiClient for Linux is supported on Ubuntu 16.04 and later, Red Hat 7.4 and later, and CentOS 7.4 and later. If you are using FortiClient only for IPsec VPN or SSL VPN, FortiClient version 5.6.0 and later are supported.
FortiClient iOS	<ul style="list-style-type: none">• 6.2.0 and later
FortiClient Android and FortiClient VPN Android	<ul style="list-style-type: none">• 6.2.0 and later
FortiAP	<ul style="list-style-type: none">• 5.4.2 and later• 5.6.0 and later
FortiAP-S	<ul style="list-style-type: none">• 5.4.3 and later• 5.6.0 and later
FortiAP-U	<ul style="list-style-type: none">• 5.4.5 and later

FortiAP-W2	<ul style="list-style-type: none"> 5.6.0 and later
FortiSwitch OS (FortiLink support)	<ul style="list-style-type: none"> 3.6.9 and later
FortiController	<ul style="list-style-type: none"> 5.2.5 and later Supported models: FCTL-5103B, FCTL-5903C, FCTL-5913C
FortiSandbox	<ul style="list-style-type: none"> 2.3.3 and later
Fortinet Single Sign-On (FSSO)	<ul style="list-style-type: none"> 5.0 build 0292 and later (needed for FSSO agent support OU in group filters) <ul style="list-style-type: none"> Windows Server 2019 Standard Windows Server 2019 Datacenter Windows Server 2019 Core Windows Server 2016 Datacenter Windows Server 2016 Standard Windows Server 2016 Core Windows Server 2012 Standard Windows Server 2012 R2 Standard Windows Server 2012 Core Windows Server 2008 (32-bit and 64-bit) Windows Server 2008 R2 64-bit Windows Server 2008 Core Novell eDirectory 8.8
FortiExtender	<ul style="list-style-type: none"> 4.1.2
AV Engine	<ul style="list-style-type: none"> 6.00149
IPS Engine	<ul style="list-style-type: none"> 5.00218
Virtualization Environments	
Citrix	<ul style="list-style-type: none"> Hypervisor Express 8.1, build 2019-12-04
Linux KVM	<ul style="list-style-type: none"> Ubuntu 18.04.3 LTS QEMU emulator version 4.4.4 (Debian 1:4.0+dfsg-0ubuntu9.4) libvirt (libvirt) 4.0.0
Microsoft	<ul style="list-style-type: none"> Hyper-V Server 2019
Open Source	<ul style="list-style-type: none"> XenServer version 4.1 and later
VMware	<ul style="list-style-type: none"> ESX versions 4.0 and 4.1 ESXi versions 4.0, 4.1, 5.0, 5.1, 5.5, 6.0, 6.5, and 6.7
VM Series - SR-IOV	The following NIC chipset cards are supported: <ul style="list-style-type: none"> Intel X520

Language support

The following table lists language support information.

Language support

Language	GUI
English	✓
Chinese (Simplified)	✓
Chinese (Traditional)	✓
French	✓
Japanese	✓
Korean	✓
Portuguese (Brazil)	✓
Spanish	✓

SSL VPN support

SSL VPN standalone client

The following table lists SSL VPN tunnel client standalone installer for the following operating systems.

Operating system and installers

Operating System	Installer
Linux CentOS 6.5 / 7 (32-bit & 64-bit)	2336. Download from the Fortinet Developer Network: https://fdn.fortinet.net .
Linux Ubuntu 16.04 / 18.04 (32-bit & 64-bit)	

Other operating systems may function correctly, but are not supported by Fortinet.



SSL VPN standalone client no longer supports the following operating systems:

- Microsoft Windows 7 (32-bit & 64-bit)
- Microsoft Windows 8 / 8.1 (32-bit & 64-bit)
- Microsoft Windows 10 (64-bit)
- Virtual Desktop for Microsoft Windows 7 SP1 (32-bit)

SSL VPN web mode

The following table lists the operating systems and web browsers supported by SSL VPN web mode.

Supported operating systems and web browsers

Operating System	Web Browser
Microsoft Windows 7 SP1 (32-bit & 64-bit)	Mozilla Firefox version 76 Google Chrome version 81
Microsoft Windows 10 (64-bit)	Microsoft Edge Mozilla Firefox version 76 Google Chrome version 81
Linux CentOS 7/8	Mozilla Firefox version 68
OS X Catalina 10.15	Apple Safari version 13 Mozilla Firefox version 76 Google Chrome version 81
iOS	Apple Safari Mozilla Firefox Google Chrome
Android	Mozilla Firefox Google Chrome

Other operating systems and web browsers may function correctly, but are not supported by Fortinet.

SSL VPN host compatibility list

The following table lists the antivirus and firewall client software packages that are supported.

Supported Microsoft Windows XP antivirus and firewall software

Product	Antivirus	Firewall
Symantec Endpoint Protection 11	✓	✓
Kaspersky Antivirus 2009	✓	
McAfee Security Center 8.1	✓	✓
Trend Micro Internet Security Pro	✓	✓
F-Secure Internet Security 2009	✓	✓

Supported Microsoft Windows 7 32-bit antivirus and firewall software

Product	Antivirus	Firewall
CA Internet Security Suite Plus Software	✓	✓
AVG Internet Security 2011		
F-Secure Internet Security 2011	✓	✓
Kaspersky Internet Security 2011	✓	✓
McAfee Internet Security 2011	✓	✓
Norton 360™ Version 4.0	✓	✓
Norton™ Internet Security 2011	✓	✓
Panda Internet Security 2011	✓	✓
Sophos Security Suite	✓	✓
Trend Micro Titanium Internet Security	✓	✓
ZoneAlarm Security Suite	✓	✓
Symantec Endpoint Protection Small Business Edition 12.0	✓	✓

Resolved issues

The following issues have been fixed in version 6.2.5. For inquiries about a particular bug, please contact [Customer Service & Support](#).

Anti Spam

Bug ID	Description
497024	Flow mode banned word spam filter log is missing the banned word.

Anti Virus

Bug ID	Description
582368	URL threat detection version shows a large negative number after FortiGate reboots.
615805	Device goes into conserve mode due to large files.

Application Control

Bug ID	Description
630075	After upgrading, FortiGate faced an internet access issue when IPS and AC profiles are enabled and the outgoing interface is an npu_ylink.

Data Leak Prevention

Bug ID	Description
582480	scanunit crashes with signal 11 in dlpscan_mailheader when AV scans files via IMAP.

Endpoint Control

Bug ID	Description
608301	EMS serial number format should be flexible.

Explicit Proxy

Bug ID	Description
591012	WAD crashed at wad_disclaimer_get with signal 11 when disclaimer is enabled in proxy policy and the browser is Chrome.
610298	Compare and sync the VSD change in V5.6 to WAD VS.
650540	FortiGate sends traffic to an incorrect port using a wrong source NAT IP address.

Firewall

Bug ID	Description
596633	In NGFW mode, IPS engine drops RPC data channel when IPS profile is applied to a security policy.
603263	Increase the maximum limit for the optional parameters in SCTP INIT packet. After the fix, the maximum limit is 10 instead of 4 parameters.
606962	Timeout value is not reflected correctly to a new session when changing timeout value for <code>system session-ttl</code> on FortiGate-HV.
610557	FortiGate VIP object offers weak elliptic curves since VS implementation in WAD for FortiOS 6.0 and above.
615073	FTP session helper does not work when there is reflected (auxiliary) session.
622045	Traffic not matched by security policy when using service groups in NGFW policy mode.

FortiView

Bug ID	Description
573138	When the data source is FortiGate Cloud, there is no paging to load sessions; only entries 1-499 are rendered.

GUI

Bug ID	Description
401862	<i>Monitor</i> page display incorrect virtual server entries for IPv6, VIP46, and VIP64; right-clicking gives an error.
493819	Reorder function on <i>Authentication Rules</i> page does not work.
513694	User cannot log in to GUI when password change is required and has pre-login or post-login banner enabled or FIPS mode.
564849	HA warning message remains after primary device takes back control.
592854	When editing a firewall address or address group created in the VPN wizard, invalid characters in the comments block submitting the change.
594534	GUI shows <i>Invalid LDAP server</i> error while LDAP query successfully finished.
594702	When sorting the interface list by the <i>Name</i> column, the ports are not always in the correct order (port10 appears before port2).
601568	Interface status is not displayed on faceplate when viewing from the <i>System > HA</i> page.
602397	FortiSwitch port page is noticeably slow for large topology.
604682	GUI takes two minutes to load <i>VPN > IPsec Tunnels</i> for 1483 tunnels.
605496	Configured overlapped subnet on GUI still shows error message after enabling subnet overlap.
614056	Disabling the <i>Idle Logout</i> toggle on the <i>SSL-VPN Settings</i> page does not change the idle timeout setting, so the change does not persist after clicking <i>Apply</i> .
615267	In Firefox, SAML SSO admin cannot create additional SSO admins or normal admins via the GUI.
616878	DHCP relay IP address not showing on <i>Network > Interfaces</i> page for VLAN interface.
620854	GUI should not add speed to virtual switch member port (FG-101F).
623109	IPS <i>Filter Details</i> column is empty when <i>All</i> is used.
624551	On POE devices, several sections of the GUI take over 15 seconds to fully load.
628373	Software switch members and their VLANs are not visible in the GUI interfaces list.
633937	GUI is not displaying DHCP configuration if the interface name includes the \ character.
638277	Firewall address group object (including interface subnet) is invisible in <i>Accessible Networks</i> .
639756	<i>Monitor > SD-WAN Monitor</i> keeps loading after disabling VPN member.
642402	LCP-1250RJ3SR-K transceiver shows a warning in the GUI even though it is certified.
644999	Fortinet-sold active direct attached cable (SP-CABLE-ADASFP+) is showing as not certified by Fortinet.
646327	GUI does not show URL filter when there is a large number of URL filters.
650800	Error when deleting multiple phase 2 selectors for VPN from the GUI.

HA

Bug ID	Description
621583	HA cannot display status in GUI when heartbeat cables reconnect.
623642	It takes up to 10 seconds to get NPU VDOM link up when rebooting primary unit.
627610	When HA primary device is down, a time synchronization with NTP servers will be disabled after failback.
631342	FG-100D HA A-P mode not syncing.
637843	HA secondary device is reporting multiple events (DDNS update failed).
638287	<code>private-data-encryption</code> causes cluster to be periodically out of sync due to customer certificates.
645293	<code>traceroute</code> not working in asymmetric FGSP environment.
656099	mgmt interfaces are excluded for heartbeat interfaces (even if <code>dedicate-mgmt</code> is not enabled).

Intrusion Prevention

Bug ID	Description
587363	IPS engine and IPS helper crash with signal 6 (aborted).
595062	SSL offloading randomly does not work when UTM (AV/IPS) is enabled on firewall policy.
631381	RDP NLA authentication blocked by FortiGate when enabling IPS profile in the security group (central NAT).

IPsec VPN

Bug ID	Description
584982	The customer is unable to log in to VPN with RADIUS intermittently.
606129	<code>iked</code> crash when proposal is AES-GCM.
607134	Upon reboot, failover or re-negotiation occurs with an active FEC enabled and tunnel traffic can no longer pass.
610390	IKEv2 EAP certificate authentication failings after upgrading from to 6.2.1 to 6.2.3.
610558	ADVPN cannot establish after primary ISP has recovered from failure and traffic between spokes is dropped.

Bug ID	Description
631968	IKE daemon signal 6 crash when <code>phase1 add-gw-route</code> is enabled.
634883	IKE crashes at <code>ike_hasync__xauth</code> .
635325	Static route for site-to site VPN remains active even when the tunnel is down.

Log & Report

Bug ID	Description
605405	IPS logs are recorded twice with TCP offloading on virtual server.
608565	FortiGate sends incorrect long session logs to FortiGate Cloud.
612779	Reliable syslogd session goes into bad state due to traffic shaper.
616835	Logs from HA secondary unit cannot be uploaded to FortiCloud.
628358	Logs are not generated in GUI and CLI after checking the file system (after power cable disconnected).
635013	FortiOS gives wrong time stamp when querying FortiGate Cloud log view.
643840	<code>vwlservice</code> should log the SD-WAN rule and not an internet service; impacts FortiAnalyzer SD-WAN monitor widgets and reports.

Proxy

Bug ID	Description
568905	WAD crashes due to RCX value being null.
586909	When CIFS profile is loaded, using MacOS to access Windows Share causes WAD to crash.
612333	In FortiGate with squid configuration (proxy chain), get <code>ERR_SSL_PROTOCOL_ERROR</code> when using Google Chrome with certificate/deep inspection.
615791	Abbreviated handshake randomly receives fatal <code>illegal_parameter</code> against zendesk.com services/sites.
617099	WAD crashes every few minutes.
623108	FTP-TP reaches high memory usage and triggers conserve mode.
631723	AV in proxy inspection mode blocks Cisco Webex traffic.
632085	When CIFS profile is loaded, using MacOS (Mojave 10.14) to access Windows 2016 SMB Share causes WAD to crash.

Bug ID	Description
637389	The WAD process is crashing multiple times.
640427	Web proxy WAD crash under WAN Opt auto-active mode.

Routing

Bug ID	Description
602679	Prevent BGP daemon crashing when peer breaks TCP connection.
602826	BGP route is not added into kernel during ADVPN test.
608106	BGP daemon crashes when TCP connection is broken by peer.
611539	Editing/adding any address object that is referenced in policy is generating false positive SD-WAN alert messages.
613716	SSL VPN sends packet using wrong interface causing disconnections.
619343	Cannot ping old VRIPs when adding new VRIPs.
625345	The single BGP update message contains the same prefix in withdrawn routes and NLRI (advertised route).
627951	NTP and FSSO not following SD-WAN rules
628896	DHCP relay to follow SD-WAN rules.
629521	SD-WAN IPv6 default route cannot be redistributed into BGP using <code>set default-originate</code> command.
635716	FortiGuard web filter traffic also needs to follow SD-WAN service.

Security Fabric

Bug ID	Description
597139	Crash happens due to segfault in CSF.
609182	<i>Security Fabric Settings</i> page sometimes cannot load FortiSandbox URL threat detection version despite FortiSandbox being connected.
614691	csfd uses too much CPU in a large topology.

SSL VPN

Bug ID	Description
595505	FortiGate does not send client IP address as a framed IP address to RADIUS server in RADIUS accounting request message.
600029	Sending RADIUS accounting interim update messages with SSL VPN client framed IP are delayed.
604772	SSL VPN tunnel is unexpectedly down sometimes when certificate bundle is updated.
606271	Double redirection through SSL web mode not working.
607687	RDP connection via SSL VPN web portal does not work with UserPrincipalName (UPN) and NLA security.
608464	Get 305 error when browsing website through SSL VPN web mode bookmark and sslvpnd crashes.
610579	Videos from live cameras via SSL VPN web mode not working.
617170	https://outlook.office365.com cannot be accessed in SSL VPN web portal.
620508	CLI command <code>get vpn ssl monitor</code> displays users from other VDOM.
622068	Adding FQDN routing address in split tunnel configuration injects single route in client for multiple A records.
622110	SSL VPN disconnected when importing or renaming CA certificates.
622871	SSL VPN web mode not displaying full customer webpage after logging in.
623076	Add memory protection for web mode SSL VPN child process (guacd).
623231	Pages could not be shown after logging in to back-end application server.
623379	Memory corrupt in some DNS callback cases causes SSL VPN crash.
624145	An internal website via SSL VPN web portal failed to load an external resource.
624899	Log entry for tunnel stats shows wrong tunnel ID when using RDP bookmark.
625301	Riverbed SteelCentral AppResponse login form is not displaying in SSL VPN web mode.
628821	Internal aixws7test2 portal is not loading in SSL VPN web mode.
629190	After SSL VPN proxy, some JS files of hapi website could not work.
629373	SAML login button is lost on SSL VPN portal.
631130	Internal site http://va***.com not completely loading through SSL VPN web mode bookmark.
633812	For guacd daemon generated for RDP session, it would sometimes be in an unknown state with 100% CPU and could not be released.
634991	Internal server error 500 while accessing contolavdip portal in SSL VPN web mode.
635307	Map could not be displayed correctly in SSL VPN web mode.
636984	Website (pr***.com) not loading properly in SSL VPN web mode.

Bug ID	Description
637018	After the upgrade to 6.2.4/6.4.0 SSL VPN portal mapping/remote authentication is matching user into the incorrect group.
638733	Internal website hosted in bookmark <code>https://in***.cat</code> is not loading completely in SSL VPN web mode.
648369	Some JS files of <code>jira.***.vwwg</code> could not run in SSL VPN web mode.
649130	SSL VPN log entries display users from other VDOMs.
654534	SAML authentications occurring through SSL VPN web mode are not completing.

System

Bug ID	Description
503125	FG-100D traffic traversing port1-port16 only saturates CPU0.
567019	CP9 VPN queue tasklet unable to handle kernel NULL pointer dereference at 0000000000000120 and device reboots.
576323	SFP+ 1G speed should be supported on FG-1100E, FG-1800F, FG-2200E, and FG-3300E series.
581496	FG-201E stops sending out packets and NP6lite is stuck.
594871	Potential memory leak triggered by FTP command in WAD.
604613	<code>sentbyte</code> of NTP on local traffic log shows as 0 bytes, even though NTP client receives the packet.
607357	High CPU usage issue caused by high depth expectation sessions in the same hash table slot.
607836	Failed to set <code>ping-option source</code> to <code>Auto</code> .
608442	After a reboot of the PPPoE server, the FortiGate (PPPoE clients, 35 clients) keeps flapping (connection down and up) for a long time before connecting successfully.
609660	NPU offloading enabled dropping traffic from IPsec VPN tunnel remote gateway.
611512	When a LAG is created between 10 GE SFP+ slots and 25 GE SFP28/10 GE SFP+ slots, only about 50% of the sessions can be created. Affected models: FG-110xE, FG-220xE, and FG-330xE.
612302	FortiOS is not sending out IPv6 router advertisements from the link-local addresses added on the fly.
612351	Many <code>no session matched</code> logs while managing FortiGate.
613017	<code>ip6-extra-addr</code> does not perform router advertisement after reboot in HA.
613136	Uninitialized variable that may potentially cause <code>httpd</code> signal 6 and 11 crash issue.
615435	Crashes might happen due to CMDB query allocation fail that causes a segfault.

Bug ID	Description
616022	Long delay and cmdbsvr at 100% CPU consumption when modifying address objects and address groups via GUI or REST API.
617134	Traffic not showing statistics for VLAN interfaces base on hardware switch.
617154	Fortinet_CA is missing in FG-3400E.
617409	The FG-800D HA LED is off when HA status is normal.
618762	Fail to detect transceiver on all SFP28/QSFP ports. Affected platforms: FG-3300E and FG-3301E.
620827	Over a period of time, FG-60E goes into memory conserve mode caused by resource leak of sepmnd daemon.
623501	FG-80D may fail to boot due to a limitation in the size of the bootloader and kernel.
626371	Request to blocked signature with SSL mirrored traffic capture causes FG-500E to reboot.
632353	Virtual WAN link stops responding after 45 members.
632635	Frame size option in sniffer does not work.
632788	DSL module of FortiWiFi 60E-DSL shows as <code>not ready</code> after upgrade.
633102	DHCPv6 client's DUID generated on two different FortiGates match.
636069	Unable to handle kernel NULL pointer dereference at 000000000000008f.
637420	<code>execute shutdown</code> reboots instead of shutting down on SoC4 platforms.
638041	SFP28 port group (ha1, ha2, port1 and port2) missing <code>1000full speed</code> option. Affected platforms: FG-220xE, FG-330xE, FG-340xE, and FG-360xE.
641419	FG-40F LAN interfaces are down after upgrading to 6.2.4 (build 5632).
643188	Interface <code>forward-error-correction</code> setting not honored after reboot.
647593	After reboot, <code>forward-error-correction</code> value is not maintained as it should be.
647718	VDOM with long name cannot be deleted.
648977	Sometimes when updating the FortiGate license, there is a certificate verification failure.

Upgrade

Bug ID	Description
615972	After upgrading from 6.2.2 to 6.2.3, the description field in the table has disappeared under DHCP reservation.
635589	<p>Upon upgrading to FortiOS 6.2.4, DoS policies configured on interfaces may drop traffic that is passing through the DoS policy configuration. Note that this can occur if the DoS policy is configured in drop or monitor mode.</p> <p>Workaround: disable the DoS policy.</p>

User & Device

Bug ID	Description
591170	Sessions are removed from the session table when FSSO group order is changed.
604844	<code>auth-concurrent</code> setting in user group is not working as expected.
605838	Device identification scanner crashes on receipt of SSDP search.
620941	Two-factor authentication using FortiClient SSL VPN and FortiToken Cloud is not working due to push notification delay.
626532	fnbamd is not sending <code>Calling-Station-Id</code> in <code>Access-Request</code> for L2TP/IPsec since 5.4.0.
627144	Remote admin LDAP user login has authentication failure when the same LDAP user has local two-factor authentication.
629487	Older FortiGate models do not have CA2 and will cause EMS server authentication to fail.
637577	Inconsistent fnbamd LDAP group match result.
638593	Certificate verification fails if any CA in a peer-provided certificate chain expires, but its cross-signed certificate is still valid in the system trust store.

VM

Bug ID	Description
613730	Unable to update routing table for a resource group in a different subscription with FortiGate Azure SDN.
614038	vMotion causing sessions to be disconnected as it consider sessions stateless.
623376	Cross-zone HA breaks after upgrading to 6.4.0 because upgrade process does not add relevant items under <code>vdom-exception</code> .
624657	Azure changes FPGA for Accelerated Networking live and VM loses SR-IOV interfaces.
626705	By assigning port1 as the HA management port, the HA secondary unit node is now able to send system information to the Azure portal through waagent so that up-to-date information is displayed on the Azure dashboard. If port1 is not used as the HA management port, the Azure display and Azure Security Center alerts will not reflect the correct state of the node, which may result in unnecessary alarms.
634499	AWS FortiGate NIC gets swapped between port2 and port3 after FortiGate reboots.
641038	SSL VPN performance problem on OCI.

VoIP

Bug ID	Description
620742	RAS helper does not NAT the port 1720 in the <code>callSignalAddress</code> field of the <code>RegistrationRequest</code> packet sent from the endpoint.
630024	voipd crashes repeatedly.

Web Filter

Bug ID	Description
618153	FSSO users cannot proceed on web filter warning page in flow-based inspection.
636754	If the last line in a threat feed does not end with "\n", it is not parsed and is not displayed in the GUI.
657466	<code>local urlfilter</code> configuration in a flow mode web filter does not work when the matched FortiGuard category is also enabled in the web filter profile.

WiFi Controller

Bug ID	Description
625326	FortiAP not coming online on FG-PPPoE interface.
641811	In FG-100F/101F with PPPoE interface, the FortiGate could not manage FortiAP.

Common Vulnerabilities and Exposures

Visit <https://fortiguard.com/psirt> for more information.

Bug ID	CVE references
606237	FortiOS 6.2.5 is no longer vulnerable to the following CVE Reference: <ul style="list-style-type: none">CVE-2020-6648

Known issues

The following issues have been identified in version 6.2.5. For inquiries about a particular bug or to report a bug, please contact [Customer Service & Support](#).

DNS Filter

Bug ID	Description
582374	License shows expiry date of 0000-00-00.

Endpoint Control

Bug ID	Description
637454	Cloud-based EMS FSSO connector in FortiGate failed to connect with FortiClient EMS proxy in public cloud.

Explicit Proxy

Bug ID	Description
540091	Cannot access explicit FTP proxy via VIP.
617934	FortiGate web proxy should support forward server on TLS 1.3 certificate inspection connection.

File Filter

Bug ID	Description
627795	In flow mode, file filter log can show the file type, but when in proxy inspection mode, it only shows unknown file type.

FortiView

Bug ID	Description
643198	<i>Threats</i> drilldown for <i>Sources</i> , <i>Destinations</i> , and <i>Country/Region</i> (1 hour, 24 hours, 7 days) gives <i>Failed to retrieve FortiView data</i> error.
645839	FortiView GUI not loading the <i>Sources</i> and <i>Destinations</i> pages (with <i>IPs</i> and <i>now</i> filters).

GUI

Bug ID	Description
354464	<i>AntiVirus</i> profile in GUI should not override quarantine archive value.
514632	Inconsistent <code>Refcnt</code> value in GUI when using ports in HA <code>session-sync-dev</code> .
517744	Widget for CPU memory and sessions does not show real time diagram in 12-hours and 24-hours mode.
529094	<i>Anti-Spam Black White List Entry</i> in GUI permits action <i>Mark as Reject</i> in GUI when it should not.
535099	GUI should add support for new MAC address filter in SSID dialog page.
541042	Log viewer forward traffic cannot support double negate filter (client side issue).
567996	GUI issues with physical topology on <i>Managed FortiSwitch</i> and <i>FortiSwitch Ports</i> pages.
584915	<i>OK</i> button missing on all pages (policy, interface, system settings) on Android mobile.
584939	VPN event logs shows incorrectly when adding two action filters and if the filter action filter contains "-".
623773	Security Fabric page loads slowly after adding more devices to FortiTelemetry.
635538	In FortiGate SAML authentication with Azure AD, SP configuration is grayed-out in the GUI.

HA

Bug ID	Description
596551	Syncing problem after restoring one VDOM configuration.
609631	Simultaneous reboot of both nodes in HA when <code>gtp-enhance-mode</code> enabled or disabled.
634604	SCTP sessions are not fully synchronized between primary and secondary devices in version 5.6.11 on FG-3240C.
640428	SSL VPN related auth login user event logs do not require HA to be in sync.

Bug ID	Description
643958	Inconsistent data from FFDB caused several confsyncd crashes.
648073	HA cluster uses physical port MAC address at the time of HA failover.

Intrusion Prevention

Bug ID	Description
565747	IPS engine 5.00027 has signal 11 crash.
586544	IPS intelligent mode not working when reflect sessions are created on different physical interfaces.
587668	IPS engine 5.00035 has signal 11 crash.
590087	When IPS pcap is enabled, traffic is intermittently disrupted after disk I/O reaches IOPS limit.

IPsec VPN

Bug ID	Description
592361	Cannot pass traffic over ADVPN if: <code>tunnel-search</code> is set to <code>nexthop</code> , <code>net-device</code> <code>disable</code> , <code>mode-cfg</code> <code>enable</code> , and <code>add-route</code> <code>disable</code> .
631804	OCVPN errors showing in logs when OCVPN is disabled.
644780	Rectify the consequences if password renewal on FortiClient is canceled.

Log & Report

Bug ID	Description
606533	User observes <code>FGT internal error</code> while trying to log in from the web UI.
634947	<code>rlogd</code> signal 11 crashes.

Proxy

Bug ID	Description
582475	WAD is crashing with signal 6 in <code>wad_fmem_free</code> when processing SMB2/CIFS.
588661	Customer had issue accessing the HTTPS website after enabling the proxy web filter.
648831	WAD memory leak on FortiOS 6.2.4.

REST API

Bug ID	Description
584631	REST API admin with token unable to configure HA setting (via login session works).

Routing

Bug ID	Description
537354	BFD/BGP dropping when <code>outbandwidth</code> is set on interface.
624621	Log traffic to remote servers does not follow SD-WAN rules.
627901	<code>set dscp-forward</code> option is missing when using maximize bandwidth strategy in SD-WAN rule.
641050	Need support for SSL VPN web mode traffic to follow SD-WAN rules/policy route.
641928	Wrong behavior with SD-WAN routing on FG-60F.

Security Fabric

Bug ID	Description
585354	After enabling FortiTelemetry, <i>Security Fabric</i> and <i>Dashboard</i> GUI pages cannot be displayed.

SSL VPN

Bug ID	Description
505986	On IE 11, SSL VPN web portal displays blank page title <code>{{::data.portal.heading}}</code> after authentication.
594416	Accessing FortiGate GUI through SSL VPN web mode causes <i>Network > Interfaces</i> page to return an error.
627456	Traffic cannot pass when SAML user logs in to SSL VPN portal with group match.
631082	FortiManager tabs/page do not load when accessed via SSL VPN web mode.
635814	FortiGate GUI cannot be rendered and displayed via SSL VPN portal.
636332	With SSL VPN proxy JIRA web application, get one wrong URL without proxy path.

Switch Controller

Bug ID	Description
588584	GUI should add support to allow using switch VLAN interface under a tenant VDOM on a managed switch VDOM.
605864	If the firewall is downgraded from 6.2.3 to 6.2.2, the FortiLink interface loses its CAPWAP setting.

System

Bug ID	Description
464340	EHP drops for units with no NP service module.
578031	FortiManager Cloud cannot be removed once the FortiGate has trouble on contract.
594264	NP-offloaded active TCP/UDP sessions established over IPsec VPN tunnels will timeout at session TTL expiry.
598464	Rebooting FG-1500D in 5.6.x during upgrade causes an L2 loop on the heartbeat interface and VLAN is disabled on the switch side.
600032	SNMP does not provide routing table for non-management VDOM.
605723	FG-600E stops sending out packets on its SPF and copper port on NP6.
607565	Interface <code>emac-vlan</code> feature does not work on SoC4 platform.
627269	Wildcard FQDN not resolved on the secondary unit.

Bug ID	Description
634600	FWF-60E-DSL ADSL2+ connection provided by BT in the UK does not work after upgrading from 6.0.9 to 6.2.4.
642327	FortiGate unable to boot with kernel panic by cmdbsvr when VLAN is configured on redundant interface with non-NPU port.
644380	FG-40F/60F kernel panic: failure at mm/vmalloc.c:1341/ __get_vm_area_node () !.
645363	SNMP monitoring does not provide the SD-WAN member interface name.
654159	NP6Xlite traffic not sent over the tunnel when NPU is enabled.

Upgrade

Bug ID	Description
658664	<p>FortiExtender status becomes <code>discovered</code> after upgrading from 6.0.10 (build 0365).</p> <p>Workaround: change the <code>admin</code> from <code>discovered</code> to <code>enable</code> after upgrading.</p> <pre>config extender-controller extender edit <id> set admin enable next end</pre>

User & Device

Bug ID	Description
546794	De-authentication of RSSO user does not clear the login from the motherboard.
580391	Unable to create MAC address-based policies in NGFW mode.
591461	FortiGate does not send user IP to TACACS server during authentication.
621161	src-vis crashes on receipt of certain ONVIF packets.
634580	Peer users are matching every group instead of only groups based on the LDAP group membership.

VM

Bug ID	Description
585882	Error in log, msg="Interface 12345678001-ext:64 not found in the list!", while creating a long name VDOM in FG-SVM.
587180	FG-VM64-KVM is unable to boot up properly when doing a hard reboot with the host.
587757	FG-VM image unable to be deployed on AWS with additional HDD (st1) disk type.
596742	Azure SDN connector replicates configuration from primary device to secondary device during configuration restore.
603100	Autoscale not syncing certificate among the cluster members.
605511	FG-VM-GCP reboots a couple of times due to kernel panic.
606527	GUI and CLI interface dropdown lists are inconsistent.
608881	IPsec VPN tunnel not staying up after failing over with AWS A-P cross-AZ setup.
634245	Dynamic address objects are not resolved to all addresses using Azure SDN connector.
640436	FortiGate AWS bootstrapped from configuration does not read SAML settings.
652416	AWS Fabric connector always uses root VDOM even though it is not a management VDOM.

Web Filter

Bug ID	Description
629005	foauthd has signal 11 crashes when FortiGate authenticates a web filter category.

WiFi Controller

Bug ID	Description
638318	FG-51E cannot authorize the FAP-C24JE.

Built-in IPS engine

Resolved engine issues

Bug ID	Description
497024	Flow mode banned word spam filter log is missing the banned word.
657466	<code>local urlfilter</code> configuration in a flow mode web filter does not work when the matched FortiGuard category is also enabled in the web filter profile.

Limitations

Citrix XenServer limitations

The following limitations apply to Citrix XenServer installations:

- XenTools installation is not supported.
- FortiGate-VM can be imported or deployed in only the following three formats:
 - XVA (recommended)
 - VHD
 - OVF
- The XVA format comes pre-configured with default configurations for VM name, virtual CPU, memory, and virtual NIC. Other formats will require manual configuration before the first power on process.

Open source XenServer limitations

When using Linux Ubuntu version 11.10, XenServer version 4.1.0, and libvir version 0.9.2, importing issues may arise when using the QCOW2 format and existing HDA issues.



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